

Nationwide House Energy Rating Scheme* Certificate

Certificate Number: **XZ6N6WOB0K**

Date of Certificate: **6 Feb 2019**

★ Star rating: **5.9**



Assessor details

Accreditation number: **101225**
Name: **Pranab chakma**
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Declaration of interest: **-**
Software: **FirstRate5: 5.2.9 (3.13)**
AAO: **ABSA**

Overview

Dwelling details

Address: **107 Griffiths Street**
Suburb: **Balgowlah**
State: **NSW** Postcode: **2093**
Type: **New Home** NCC Class: **Class 1a**
Lot/DP number: **C/302957** NatHERS climate zone: **56**
Exposure: **suburban**

Key construction and insulation materials

(see following pages for details)

Construction: Wall: **BRICK VENNER & CLADDING**
Roof: **METAL**
Floor: **TIMBER**
Insulation: **R2.5 & R1**
Roof: **ROOF R-1.3 CEILING-R6 & 2**
Floor:
Glazing: **ALUMINUM CLEAR**

Net floor area (m²)

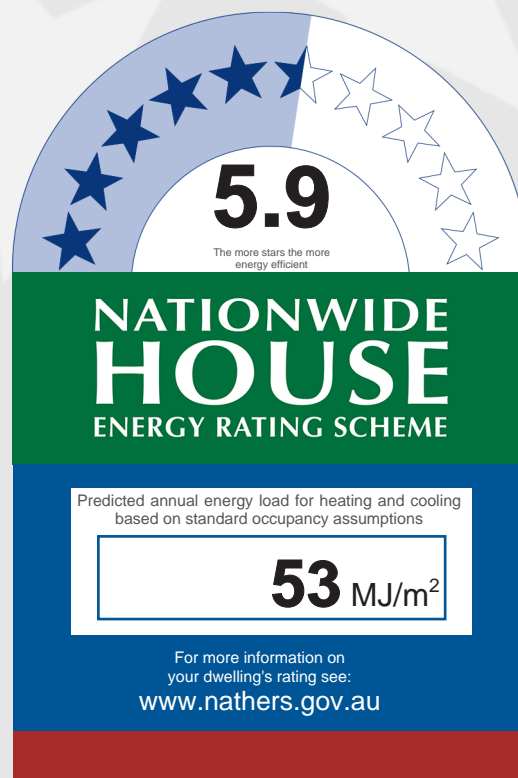
Conditioned: **138.2**
Unconditioned: **5.8**
Garage: **-**
TOTAL: **144**

Annual thermal performance loads (MJ/m²)

Heating: **28.9**
Cooling: **24.1**
TOTAL: **53**

Plan documents

Plan ref/date: **-**
Prepared by: **-**



Ceiling penetrations

(see following pages for details)

Sealed: **31**
Unsealed: **0**
TOTAL:** **31**

Principal downlight type: **LED**

NOTE: This total is the maximum number of ceiling penetrations allowed to a ceiling (under a roof) for this certificate. **If this number is exceeded in construction then this certificate IS NOT VALID and a new certificate is required. Loss of ceiling insulation for the penetrations listed has been taken into account with the rating.

Window selection - default windows only

Note on allowable window values: Only a 5% tolerance to the nominated SHGC window values shown on page 2 can be used with this rating.

Note: Only a +/-5% SHGC tolerance is allowed with this rating.

NB: This tolerance ONLY applies to SHGC, the U-value can always be lower but not higher than the values stated on page 2.

If any of the windows selected are outside the 5% tolerance then this certificate is no longer valid and the dwelling will need to be rerated to confirm compliance.

Scan to access this certificate online and confirm this is valid.



<https://www.fr5.com.au/QRCodeLand ing?PublicId=XZ6N6WOB0K>

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Building Features

Windows type and performance value

Window ID	Window type	U-value	SHGC
ALM-002-01 A	Aluminium B SG Clear	6.7	0.7
ALM-001-01 A	Aluminium A SG Clear	6.7	0.57
ALM-002-04 A	Aluminium B SG Low Solar Gain Low-E	5.6	0.41

Windows schedule

Window ID	Window no.	Height (mm)	Width (mm)	Orientation	Zone name	Outdoor shade
ALM-002-01 A	D5	2180	3910	SSW	LIVING+KITCHEN	No
ALM-002-01 A	W1	600	2400	WNW	LIVING+KITCHEN	No
ALM-002-01 A	W2	600	2400	WNW	LIVING+KITCHEN	No
ALM-002-01 A	D2	2140	5190	NNE	LIVING	No
ALM-001-01 A	W3	1700	600	WNW	LIVING	No
ALM-001-01 A	W4	1700	600	WNW	LIVING	No
ALM-001-01 A	W5	1450	600	SSW	BED2	No
ALM-001-01 A	W6	1450	600	SSW	BED2	No
ALM-001-01 A	W7	1450	600	SSW	BED2	No
ALM-002-04 A	W8	1500	2400	WNW	BED2	No
ALM-002-01 A	W9	1500	1800	WNW	BATH	No
ALM-002-04 A	W10	1500	2400	WNW	BED3	No
ALM-002-01 A	W12	1500	1500	WNW	ENS	No
ALM-002-01 A	D6	2700	3940	NNE	MBED	No
ALM-002-01 A	W17	500	900	NNE	MBED	Yes
ALM-002-04 A	W13	1500	2400	WNW	MBED	No
ALM-002-04 A	W11	900	2865	WNW	STAIR	No

Roof windows and skylight type and performance value

ID	Window type	U-value	SHGC
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Roof window and skylight schedule

ID	Roof window/ skylight no.	Area (m ²)	Orientation	Zone name	Outdoor shade	Indoor shade/ diffuser
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External wall type

Type	Insulation	Wall wrap
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1 : FR5 - Brick Veneer	Rockwool batt: R2.5 (R2.5)	No
2 : FR5 - Brick Cavity		No
3 : FR5 - Plywood - Batten btw Frame and Cladding	Rockwool batt: R2.5 (R2.5)	No

External wall schedule

Wall type	Area (m ²)	Orientation	Zone name	Fixed shade	Eaves
1 : FR5 - Brick Veneer	14.1	SSW	LIVING+KITCHEN	Yes	Yes
2 : FR5 - Brick Cavity	11.9	ESE	LIVING+KITCHEN	No	No
1 : FR5 - Brick Veneer	23.5	WNW	LIVING+KITCHEN	No	Yes
2 : FR5 - Brick Cavity	3.8	ESE	WC	No	No
2 : FR5 - Brick Cavity	7	ESE	LDY	No	No
2 : FR5 - Brick Cavity	18.4	ESE	LIVING	No	No
1 : FR5 - Brick Veneer	14.1	NNE	LIVING	Yes	Yes
1 : FR5 - Brick Veneer	18.4	WNW	LIVING	No	Yes
3 : FR5 - Plywood - Batten btw Frame and Cladding	10.9	SSW	BED2	No	Yes
2 : FR5 - Brick Cavity	9.3	ESE	BED2	No	No
3 : FR5 - Plywood - Batten btw Frame and Cladding	9.3	WNW	BED2	Yes	Yes
3 : FR5 - Plywood - Batten btw Frame and Cladding	5.1	WNW	BATH	Yes	Yes
3 : FR5 - Plywood - Batten btw Frame and Cladding	8.5	WNW	BED3	Yes	Yes
2 : FR5 - Brick Cavity	19.2	ESE	CORRIDOR	No	No
3 : FR5 - Plywood - Batten btw Frame and Cladding	4.9	WNW	ENS	Yes	Yes
2 : FR5 - Brick Cavity	19.1	ESE	MBED	No	No
3 : FR5 - Plywood - Batten btw Frame and Cladding	11	NNE	MBED	Yes	Yes
3 : FR5 - Plywood - Batten btw Frame and Cladding	9.3	WNW	MBED	Yes	Yes
3 : FR5 - Plywood - Batten btw Frame and Cladding	1.7	SSW	STAIR	Yes	No
3 : FR5 - Plywood - Batten btw Frame and Cladding	1.7	NNE	STAIR	Yes	No
3 : FR5 - Plywood - Batten btw Frame and Cladding	3.4	WNW	STAIR	No	No

Internal wall type

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Type	Area (m ²)	Insulation
1 : FR5 - Internal Plasterboard Stud Wall	116	

Floors

Location	Construction	Area (m ²)	Sub floor ventilation	Added insulation	Covering
LIVING+KITCHEN	CSOG: Slab on Ground	38.4	Enclosed	0.0	floattimber
WC	CSOG: Slab on Ground	2.1	Enclosed	0.0	Tiles
LDY	CSOG: Slab on Ground	4	Enclosed	0.0	Tiles
LIVING	CSOG: Slab on Ground	35.5	Enclosed	0.0	floattimber
BED2	Timber	14	Enclosed	0.0	Carpet
BATH	Timber	5.8	Enclosed	0.0	Tiles
BED3	Timber	10.3	Enclosed	0.0	Carpet
CORRIDOR	Timber	11.8	Enclosed	0.0	Carpet
ENS	Timber	4.5	Enclosed	0.0	Tiles
WIR	Timber	3.2	Enclosed	0.0	Tiles
MBED	Timber	16.4	Enclosed	0.0	Carpet
STAIR	Timber	4.1	Enclosed	0.0	none

Ceiling type

Location	Material	Added insulation	Roof space above
LIVING+KITCHEN	Plasterboard	0.0	No
LIVING+KITCHEN	Plasterboard	0.0	No
LIVING+KITCHEN	Plasterboard	0.0	No
LIVING+KITCHEN	Plasterboard	0.0	No
LIVING+KITCHEN	Plasterboard	2.0	No
WC	Plasterboard	0.0	No
WC	Plasterboard	0.0	No
WC	Plasterboard	0.0	No
LDY	Plasterboard	0.0	No
LDY	Plasterboard	0.0	No
LIVING	Plasterboard	0.0	No
LIVING	Plasterboard	0.0	No
LIVING	Plasterboard	0.0	No

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LIVING	Plasterboard	0.0	No
LIVING	Plasterboard	0.0	No
LIVING	Plasterboard	0.0	No
LIVING	Plasterboard	2.0	No
BED2	Plasterboard	6.0	Yes
BATH	Plasterboard	6.0	Yes
BED3	Plasterboard	6.0	Yes
CORRIDOR	Plasterboard	6.0	Yes
ENS	Plasterboard	6.0	Yes
WIR	Plasterboard	6.0	Yes
MBED	Plasterboard	6.0	Yes
STAIR	Plasterboard	6.0	Yes

Ceiling penetrations

Location	Number	Type	Width (mm)	Length (mm)	Seal/ unsealed
LIVING+KITCHEN	10	Downlights	50	50	Sealed
LIVING+KITCHEN	1	Exhaust Fans	100	100	Sealed
WC	1	Exhaust Fans	100	100	Sealed
LDY	1	Exhaust Fans	100	100	Sealed
LIVING	6	Downlights	50	50	Sealed
BED2	2	Downlights	50	50	Sealed
BED3	2	Downlights	50	50	Sealed
CORRIDOR	4	Downlights	50	50	Sealed
MBED	4	Downlights	50	50	Sealed

Ceiling fans

Location	Number	Diameter (mm)
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Roof type

Material	Added insulation	Roof colour
Ceil: Ceiling	0.0	light
Cont:Attic-Continuous	1.3	light

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Additional information

W-14, 15, 16 LOUVERE WINDOW NOT MODEL DUE TO SOFTWARE LIMITATION. GIVEN THE POSITION AND SHADING THE FINAL RATING LIKELY TO BE AFFECTED. ALM-002-01 A Aluminium B SG Clear APPLICABLE.

NOTE FOR COUNCIL & CERTIFIER: WINDOW IDENTIFICATION STYLE MAY VARY FROM DRAWINGS DUE TO ACCESSOR OWN PRECEDURE. LOCATION ,SIZE COULD BE IDENTIFIED FROM CERTIFICATE.

Explanatory notes

About this report

Residential energy ratings address the quality of the building fabric i.e. walls, windows, floors and roof/ceilings. Ratings do not cover the energy or water efficiency of appliances including heating and cooling, hot water, dishwashers, ovens, fridges, TVs etc. or solar panel or water tank requirements. The efficiency or specification of these items is generally covered by other regulations, standards or guidelines.

General Information

A NatHERS House Energy Rating is a comprehensive, dynamic computer modelling evaluation of the floorplans, elevations and specifications to predict an energy load of a home. Not all of us use our homes in the same way, so ratings are generated using standard assumptions. This means homes can be compared across the country.

The actual energy consumption of your home may vary significantly from the predicted energy load figures in this report depending on issues such as the size of your household and your personal preferences, e.g. in terms of heating or cooling.

While the figures are an indicative guide to energy use, they can be used as a reliable guide for comparative purposes between different house designs and for demonstrating that the design meets the required regulatory compliance.

Homes that are energy efficient use less energy, are warmer in winter, cooler in summer and cost less to run. The higher the star rating the more energy efficient.

This NatHERS House Energy Rating report was carefully prepared by your assessor on the basis of comprehensive modelling using standard procedures to rate your home using an underlying engine developed by the Australian Commonwealth Scientific and Industrial Research Organisation (CSIRO).

All information relating to energy loads presented in this report is based on a range of standard assumptions in order to allow for comparisons with reports prepared for other homes and to demonstrate minimum regulatory compliance. The standard assumptions include figures for occupancy, indoor air temperature and are based on a unique climate file for your region.

Accredited Assessors

To ensure you get a high-quality, professional NatHERS House Energy Rating report, you should always use an accredited assessor, accredited assessors are members of a professional body called an Assessor Accrediting Organisation (AAO).

AAOs have specific quality assurance processes in place and continuing professional development requirements to maintain a high and consistent standard of assessments across the country. Non-accredited assessors do not have this level of quality assurance or any on-going training requirements.

If you have any questions or concerns about this report, please direct them to your assessor in the first instance.

If your assessor is unable to address your questions or concerns, please contact their AAO listed under 'assessor details'. You can also find a range of information about accredited assessors on the AAO websites.

Disclaimer

The energy values quoted are for comparison purposes only; they are not a prediction of actual energy use. This rating only applies to the floor plan, construction details, orientation and climate as submitted and included in the attached drawing set that bears a stamp with the same number as this certificate. Changes to any of these details could affect the rating.

Contact

For more information on the Nationwide House Energy Rating Scheme (NatHERS), visit www.nathers.gov.au

For more information on energy efficient design and insulation visit www.yourhome.gov.au